

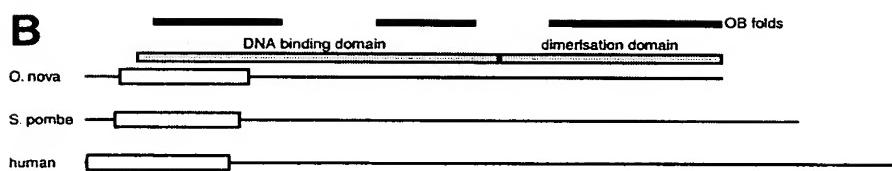
**FIGURE 1**

**A**

Ec	4	QKAACKDDEVQYSSDLSSIKKEGEEDQYHFYGVVIDASFPLYKG---EKRYYVUTCKVADPSSVAK---
Sm	25	KKREQSTRMTYVVELNKASLTS-ARAQHFYGVVIDATFPYKTN--QERYICSLKVVDPSVLKSQK
Ot	28	KKAEKGSKMEYVVELTKAQLTS-VTAQHFYAVVIDATFPYKTN--QERYICSLKIVDPSLYLKKEK
On	28	KKSDKGHDMEYVVELAKASLTS-AQPOHFYAVVIDATFPYKTN--QERYICSLKIVDPTLYLKQQK
Bs	1	MSLVPATNMYTPLNQLKCGT--IVNVYGVVKFFKPPYLSK--GTDYC5VWIVDQT-----
Sp	21	KIGELTPQSIRSSQELQKNT--IVNLFGLIVKDTPSROSLEHTKDWTITVYLWDPTCDTS--

Ec	-GGKLNTVNVVEFSQNPFEDLPIIQRVGDIVRVHRALQEHYNDAKQLNVNMYR-SSWCLEI	121
Sm	GTCGADSDYATLVLVYAKRFEDELPIIHRIGDIIRVHRATRLRLYNGCQRFENANVFYN-SSWALPS	147
Ot	GTCGDNSDYATLVLVYAKRFEDELPIIHRIGDIIRVHRATRLRLYNGCQRFENANIFYS-SSWALPS	150
On	GAGDADSDYATLVLVYAKRFEDELPIIHRIGDIIRVHRATRLRLYNGCQRFENANVFYS-SSWALPS	150
Bs	----NVKLTCLLFSGNYEMLPIIIVKNGDIVRFHRDLIQVMKETQGITSSGFA-SLTFFEGT	109
Sp	----SIGLOMHLFSKQGNDLPLVIKOVGQPLILHQITLRSYRDRTOGLSKDQERYALWPFLS	137

**B**



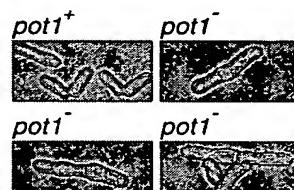
**C**

		<i>pot1</i>	
+	-	+	-
●	●	●	●
+	-	-	+
●	●	●	●

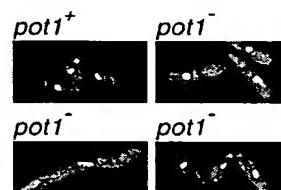
  

		<i>pot1</i> <sup>+</sup>		<i>pot1</i> <sup>-</sup>	
pot1 <sup>+</sup>	pot1 <sup>-</sup>	pot1 <sup>+</sup>	pot1 <sup>-</sup>	pot1 <sup>+</sup>	pot1 <sup>-</sup>
●	●	●	●	●	●
●	●	●	●	●	●

**D**

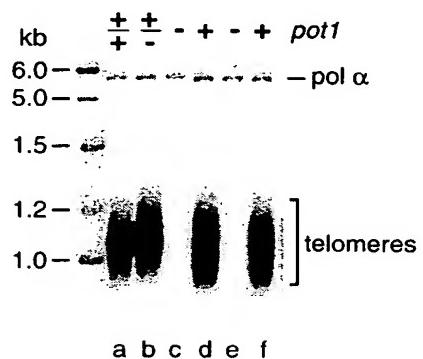


**E**

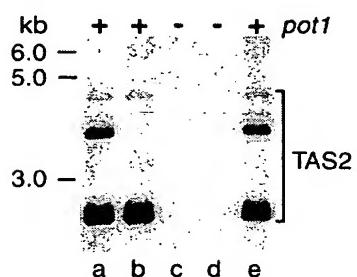


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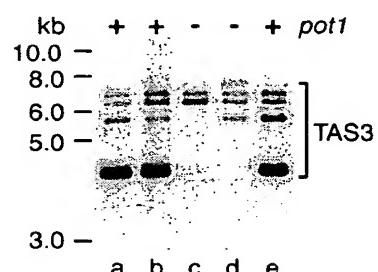
**A**



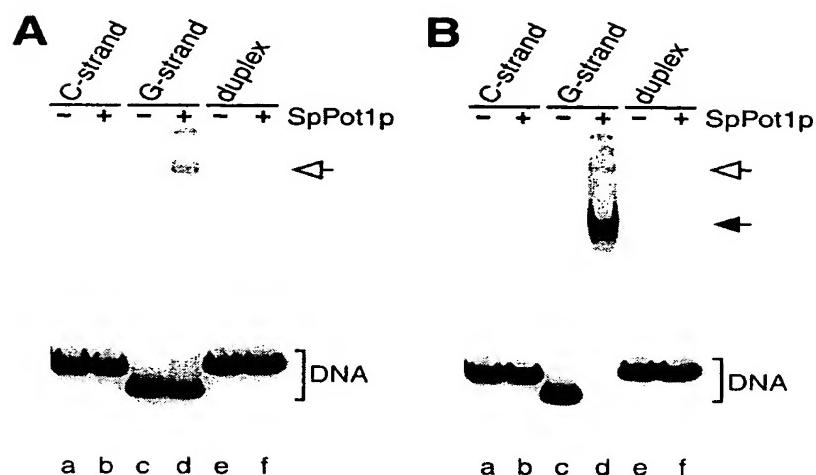
**B**



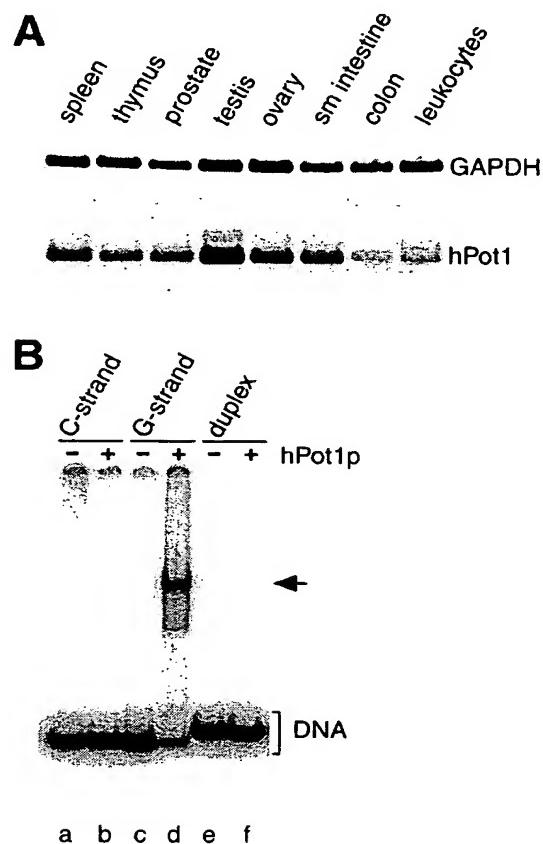
**C**



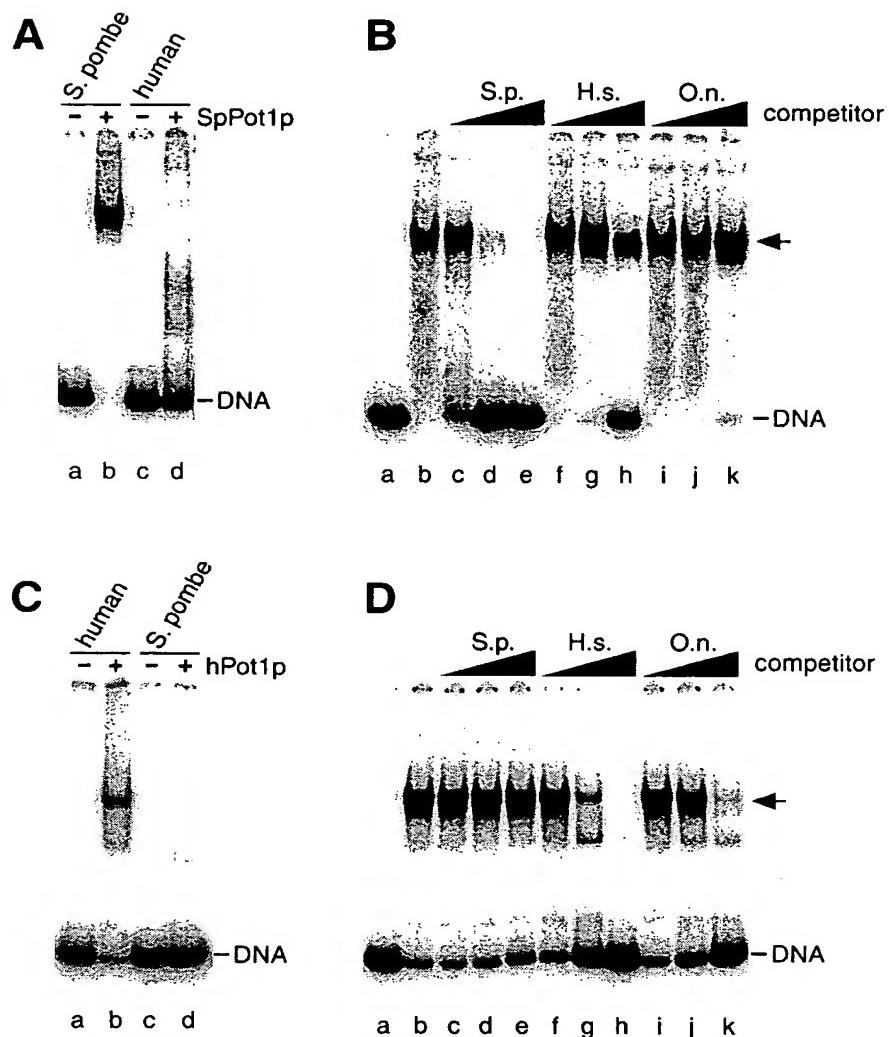
**FIGURE 2**



**FIGURE 3**

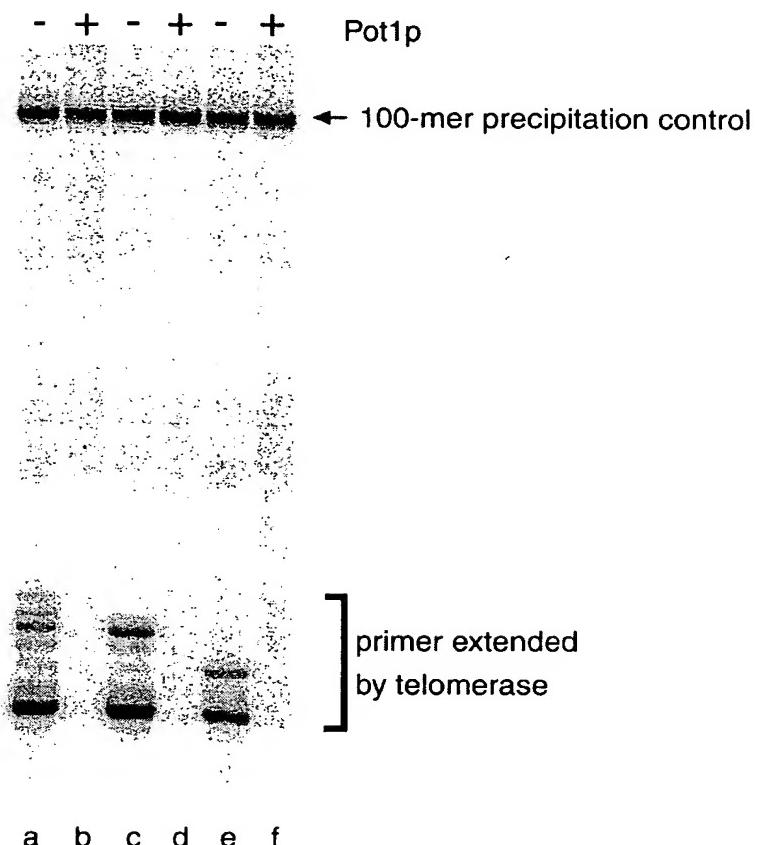


**FIGURE 4**



**FIGURE 5**

**FIGURE 6**



**FIGURE 7**

**FIGURE 8A**

gattgaggagtggtcattttgtataaagaaacaattcatttggtaaaataaaactgaataacccttagttcatccatggaaatttgaagaagggg  
aatgtcaagcttgaacaagaacttcacgcacgttattgaataatctgaagggttcacttcacgttcaagggttgttgggtttaaaagcttttaccaattcca  
tttaggtttctgagaaaggctaaaacttgcattttgttcttaaggatattttggatcattcgatgtataacgATGGGAGAGGACGTTATTGA  
CAGTCTTCAGTTGAATGAGTTATAAATGCTGGAGAATATAAGATTGGAGAACTTACATT  
CAGTCCATTAGAACGCTCTCAAGAATTACAAAAGAAGAATACTATTGTCAATTGTTGGAA  
TAGTAAAAGATTTCACCCCTAGTCGCCAAAGTCTACATGGAACTAAGGATTGGGTAACCA  
CCGTATATTGTGGGATCCAACATGTGATACATCAAGCATCGGACTACAGATACTGTT  
CAGCAAACAGGGAAATGATTGCCTGTAATCAAGCAGGTGGGCAACCGCTTGCTTCA  
TCAAATCACATTAAGAACGTTATAGAGACAGGACTCAAGGTTGTCTAAGGATCAATTGCA  
TATGCACTTGGCCAGACTTTCTTAATTCCAAGATACTCTGTCTCAACCAATGCC  
TCGTTAATGAAAACGGGAGACAAGGAAGAGCAATTGCCCTGTTAAATAAAATTG  
GGATGAGCAAACATAAAACATAAAAATGGCAATTATGAGTACCTCTGCTCGTCAA  
AATCAAACGGATTGAGTTACCCTCTGTCTTTCTGCTATCACAATAACTCCACA  
TCAACGTTGAGCTTACGCTCAGTAATTAAAACCTGGTACAGTGATAAAAACTTACT  
CTTATGTCACTGATTACGGAAATGAGCTTTTCCAATGTCCTCGTAACTAGCTC  
CTCGAGATGGAGGGCCCTTGGCTGGTTCTATAAGGTGCTTATGGGATGAGCAC  
GACTTTACTGCCGCAACTACATTAAGAACGGTGAATGTGGTTATGAAAAATGTGCGAA  
CCAAAATTGATCACCTGGTTATCTGAATGTATACTTCATGGGATTCAACAAACGTTA  
TAATATGAGTATAGAAAAGTCGATTCGGAAGAACCCGAACAAACGAAATTAGTCAG  
TAAAAGGCTTATGTTCAGAATTGCCAAATGGTATAGAACGAGTAACTCGAGAAACTCAG  
TCAAAGCCAACAATCGGAAAATCCTTTATGCCCATGAATTAAAGCAAACCTCTGTTAAT  
GAAATTACGGCCATGTCATAATGAACCTGCTAGTTAAAATTGACTACTATTCTACCA  
TACTTCATGCACCTTGCAGAATCTCTAAACCGAGGAAACATAGGCTACCGTTCAGGT  
GGTAGATTTGCCAAAGAGTTGACGCAGTTGCTGCTATCTAACCAACCACATCTCG  
TATGTTGGATTTGCCTGCTCGTAAGGGATGTATCGAATGTGACTTACCGGTATATT  
TTTGATTCTGACGCTGCCAACCTATTAAACAGCTAAAATCCAACCTGCAATTAGCT  
GATCACCCGAGATGACTCTCAGCTAAAGAAAGATTATTCTGATTTGGGGAACTTGG  
AAGAACGCATTCACTACATATCGAAGGGTGAATGCCAACTCTGGCTGCTGAAGATG  
TTGAAACACCATGGTTGATATATGTCAAAGAACATTCCTGTAATTGGGAAACACCAA  
AGACCATCAATCTTGACTTTCTCAGAAGCGCTGGCGAGGATTGGCACGAAAATTGTT  
TGActattgtataaaaaacttacaataatgaaatgttacggaaaagaaacataagaaaaacaataatttaaatttaaggaaagcttatattgggagaat  
ttataaaagcgagcgaattttactaaggaaaaacacaga

**FIGURE 8B**

MGEDVIDSLQLNELLNAGEYKIGELTFQSIRSSQELQKKNTIVNLFGIV  
KDFTPSRQSLHGTVWDPTCDTSSIGLQIHLFSKQGNDLPVI  
KQVGQPLLLHQITLRSYRDRTQGLSKDQFRYALWPDFSSNSKDTLCQPQ  
MPRLMKTGDKEEQFALLLNKIWDEQTNKHKNGELLSTSSARQNQTGLSY  
PSVSFSLLSQITPHQRCFSFYAQVIKTWYSDKNFTLYVTDYTEMELFFPM  
SPYTSSSRWRGPFGGRFSIRCILWDEHDFYCRNYIKEGYVMKNVRTKI  
DHLGYLECILHGDSAKRYNMSIEKVDSEEPELNEIKSRKRLYVQNCQNG  
IEAVIEKLSQSQQSENPFIAHELKQTSVNEITAHVINEPASLKLTTIST  
ILHAPLQNLLKPRKHRLRVQVVFWPKSLTQFAVLSQPPSSYVWMFALL  
VRDVSNVTLPVIFFDSAAELINSSKIQPCNLADHPQMTLQLKERLFLI  
WGNLEERIQHHISKGESPTLAAEDVETPWFDIYVKEYIPVIGNTKDHQS  
LTFLQKRWRGFGTKIV

**FIGURE 8C**

ATGGGAGAGGACGTTATTGACAGTCTCAGTTGAATGAGTTATTAATGCTGGAGAATATA  
AGATTGGAGAACTTACATTCACTTCAGTCATTAGAACGCTCTAAGAATTACAAAAGAAGAATA  
CTATTGTCAATTGTTGGAAATAGTAAAGATTACCCCTAGTCGCCAAAGTCTACATGG  
AACTAAGGgtatgcgttatcatggggaaactatactttttttccagcaagagctaataatcatgttttagATTGGGTAACCAC  
CGTATATTGTGGGATCCAACATGTGATACTCAAGCATCGGACTACAGATACTTGTC  
AGCAAACAGGAAATGATTGCCTGTAATCAAGCAGGTGGGCAACCGCTTTGCTTCAT  
CAAATCACATTAAGAAGTTATAGAGACAGGACTCAAGGTTGTCTAAGGATCAATTGAT  
ATGCACCTTGGCCAGACTTTCTTAATTCCAAAGATACTCTGTCTCAACCAATGCCT  
CGTTTAATGAAAACGGGAGACAAGGAAGAGCAATTGCCCTTGTGTTAAATAAAATTGG  
GATGAGCAAACATAATAACATAAAATGGCGAATTATTGAGTACCTCTGCTCGTCAAA  
ATCAAACGGATTGAGTTACCCCTCTGTCTTTCTGCTATCACAAATAACTCCACAT  
CAACGTTGTAGCTTACGCTCAGGTAAATTAAAACCTGGTACAGTGATAAAAACCTTACTC  
TTTATGTCACTGATTACGGAAAATGAGCTTTTCCAATGTCCTCGTATACTAGCTCC  
TCGAGATGGAGGGGCCCTTGGTCGGTTCTATAAGGTGCATTGTTATGGGATGAGCACG  
ACTTTACTGCCCAACTACATTAAGAAGGTGACTATGTGGTTATGAAAATGTGCGAAC  
CAAATTGATCACCTGGTTATCTGAATGTATACTTCATGGGATTAGCAGCAAAACGTTAT  
AATATGAGTATAGAAAAAGTCGATTCGGAAGAACCCGAACTAACGAAATTAGTCACGT  
AAAAGGCTTATGTTAGCAATTGCCAAATGGTATAGAAGCAGTAATCGAGAAACTCAGT  
CAAAGCCAACAATCGGAAATCCTTTATCGCCCATGAATTAAAGCAAACCTCTGTTAATG  
AAATTACGGCCATGTCTAAATGAACCTGCTAGTTAAAATTGACTACTATTTCTACCAT  
ACTTCATGCACCTTGCAGAATCTCTCAAACCGAGGAAACATAGGCTACCGCGTTAGGTG  
GTAGATTGGCAAGAGGTTGACCGAGTTGCTGTGCTATCTAACCCACCATCTCGT  
ATGTTGGATGTTGCCTGCTCGTAAGGGATGTATCGAATGTGACTTACCGTCATATT  
TTGATTCTGACGCTGCGGAACCTTAAACAGCTAAAAATCCAACCTGCAATTAGCTG  
ATCACCCGAGATGACTCTCAGCTAAAGAAAGATTATTCTGATTGGGGAACTGG  
AGAACGCATTAGCATCACATCGAAGGGTGAATGCCAACTCTGGCTGCTGAAGATGT  
TGAAACACCATGGTTGATATATATGTCAAAGAATACATTCCCTGTAATTGGGACACCAAA  
GACCATCAATCTTGACTTTCTCAGAAGCGCTGGCGAGGATTGGCACGAAAATTGTT  
GA

**FIGURE 8D**

MGEDVIDSLQLNELLNAGEYKIGELTFQSIRSSQELQKKNTIVNLFGIV  
KDFTPSRQSLHGTGMLAYHGGNYTFYFSSQELIIMFLDWVTTVYLWDP  
TCDTSSIGLQIHLFSKQGNNDLPVIKQVGQPLLLHQITLRSYRDRTQGLS  
KDQFRYALWPDFSSNSKDTLCQPMPRLMKTGDKEEQFALLLNKIWDEQ  
TNKHKGELLSTSSARQNQTGLSYPSVSFSLLSQITPHQRCFSFYAQVIK  
TWYSDKNFTLYVTDYENELFFPMSPYTSSSRWRGPGRFSIRCILWDE  
HDFYCRNYIKEGDYVVMKNVRTKIDHLGYLECILHGDSAKRYNMSIEKV  
DSEEPELNEIKSRKRLYVQNCQNGIEAVIEKLSQSQQSENPFIAHELKQ  
TSVNEITAHVINEPASLKLTISTILHAPLQNLLKPRKHRLRVQVVDWF  
PKSLTQFAVLSQPPSSYVWMFALLVRDVSNVTLPVIFFDSDAAELINSS  
KIQPCNLADHPQMTLQLKERLFLIWGNLEERIQHHISKGESPTLAAEDV  
ETPWFDIYVKEYIPVIGNTKDHQSLTFLQKRWRGFGTKIV

**FIGURE 9A**

ATGTCTTGGTTCCAGCAACAAATTATATATACACCCCTGAATCAACTTAAGGGTGGTA  
CAATTGTCATGTCTATGGTGTGAAGTTCTTAAGCCCCCATATCTAACCAAAGAAC  
TGATTATTGCTCAGTTGTAACTATTGTGGACCAGACAATGTAAAACACTAATTGCCTGCTC  
TTAGTGGAAACTATGAAGCCCTCCAATAATTATAAAAATGGAGATATTGTCGCTTTC  
ACAGGCTGAAGATTCAAGTATATAAAAAGGAGACTCAGGGTATCACCAGCTCTGGCTTTG  
CATCTTGACGTTGAGGGAACTTGGGAGGCCCTATCATAACCTCGCACTCAAGCAAGTA  
TTTAACCTCACTACTGAGGGACCACAAATGGTAGAACGCTTACGTGTTGGCATCTACT  
CATATGTCACCGTCTGGACATTACTAAAATTGTGTGATGTCAGCCAATGCAGTATTTG  
ACCTGACTTGTCACTCTGGCAAAGCAGAAGTGGACGGAGCATCTTCTAAAGGT  
ATGGGATGGCACAGGACACCATTCCATCTGGAGAGTCTTAATACAAGACCTGTTCT  
GAAGGTGATTAAGTCACATCCATCGGCTACAAATCTGACAATAGACATTAGTCTACG  
ATAACCATGTCATGTGGCAAGATCTGAAGGTTGGAAGCTTCTTAGAATCTATAGCCT  
TCATACAAACTTCATCAATGAATTCACTGAGAATCAGACAATGTTAAGTTAGAGTTCAT  
CTTCATGGAGGTACCGAGTTACGGTCGGGAATCAGGGTCTTGCAGAAAGTAACTCTGAT  
GTGGATCAACTGAAAAAGGATTAGAATCTGCAAATTGACAGCCAATCAGCATTAGAT  
GTTATCTGTCATCAGAACCTGACGACAGCTTCCAAGCTCTGGATCAGTATCATTATACG  
AGGTAGAAAGATGTCAACAGCTATCTGCTACAATACTACAGATCATCAGTATTGGAGA  
GGACACCACTATGTGCCATTGAAACAAAAAGCTCCTCAACAATACCGCATCCGAGCAA  
AATTGAGGTATATAAGCCCAGAAGACTATTCACTGTTAAACTTCATTGCCCTAAATG  
TCATTGCTGCAAGAAGTTCCACATGAGGGCGATTGGATATAATTTCAGGATGGTCA  
ACTAAAACCCAGTTGTCAAGTTACAAATACATCATTATATGATTCAAATCTGGACCA  
CTAAAATCAAAAGGACGAAAGTAGCAGTTCTTGTGAAAATAATGGTATTCTCC  
CGCTTCAAATGAATGTCTACTTTGATAGAAGGAGGTACACTCAGTGAATTGCAAAC  
CTCGAACAGTTAATAGTGTAACTCTGTGAGATCTGCCACGAAGACCTGGAACCTTG  
GACCTTCAGCACCATTCTTATACAAGGAAACAATACATCACTATGGATGAAACAGTGT  
CTAGTTGAGATCCATACAAATCTAAATTCCCTGGTTGATAAAACATCGTGGATTCTTC  
TTCTGTGGCAGAACAGCACTGGTATTGTACCCCTCCAATATGTGTTGTTGACCTTACA  
CTTGATGATGGAACAGGAGTACTAGAACGCTATCTCATGGATTCTGACAAATTCTCCAGA  
TTCCAGCATCAGAAGTTCTGATGGATGATGACCTTCAGAAAAGTGTGGATATGATCATGGA  
TATGTTTGTCTCCAGGAATAAAATTGATGCAATATCCGTGGTTGGAATGCTTCATCAAG  
TCATACAATGTCAAAATGGAACAGATAATCAAATTGCTATCAGATTGACACCACAG  
TTGCAGAACAGATGTAATCTAA

**FIGURE 9B**

MSLVPATNYIYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTI  
VDQTNVKLTCLLFSGNYEALPIIYKNGDIVRFHRLKIQVYKKETQGITS  
SGFASLTFEGTLGAPIIPRTSSKYFNFTTEDHKMVEALRVWASTHMSPS  
WTLLKLCDVQPMQYFDLTCQLLGKAEVDGASFLLKVWDGTRTPFPSWRV  
LIQDLVLEGDLSHIHRLQNLTIDILVYDNHVHVARSLKVGSLRIYSLH  
TKLQSMNSENQTMLSLEFHHLGGTSYGRGIRVLPESNSDVDQLKKDLES  
ANLTANQHSDVICQSEPDDSFPSGSVSLYEVERCQQLSATILTDXQYL  
ERTPLCAILKQKAPQQYRIRAKLRSYKPRRLFQSVKLHCPKCHLLQEVP  
HEGDLDIIIFQDGATKTPVVKLQNTSLYDSKIWTTKNQKGRKVAHFVKN  
NGILPLSNECLLIEGGTLSEICKLSNKFNSVIPVRSGHEDLELLDLSA  
PFLIQGTIHGYGCKQCSSLRSIQNLNSLVDKTSWIIPSSVAEALGIVPLQ  
YVFVMTFTLDDGTGVLEAYLMDSDKFFQIPASEVLMDDDLQKSVDIMD  
MFCPPGIKIDAYPWLECFIKSYNVTNGTDNQICYQIFDTTVAEDVI

**FIGURE 9C**

ATGTCTTGGTTCCAGCAACAAATTATATATACACCCCTGAATCAACTTAAGGGTGGTA  
CAATTGTCATGTCTATGGTGTGAAGTTCTTAAGCCCCATATCTAACCAAAGAAC  
TGATTATTGCTCAGTTGTAACTATTGTGGACCAGACAATGTAAAACTAACCTGCCTGCTC  
TTTAGTGGAAACTATGAAGCCCTCCAATAATTATAAAAATGGAGATATTGTCGCTTTC  
ACAGGCTGAAGATTCAAGTATATAAAAAGGAGACTCAGGGTATACCAGCTCTGGCTTTG  
CATCTTGACGTTGAGGGAACTTGGAGCCCTATCATACTCGCACTCAAGCAAGTA  
TTTAACCTCACTGAGGACCACAAATGGTAGAACGCTTACGTGTTGGCATCTACT  
CATATGTCACCGTCTGGACATTACTAAAATTGTGTATGTTCAGCCAATGCAGTATTTG  
ACCTGACTTGTCACTCTGGCAAAGCAGAAGTGGACGGAGCATTTCTCTAAAGGT  
ATGGGATGGCACCGAGCACCCATTCCATCTGGAGAGTCTTAATACAAGACCTGTTCTT  
GAAGGTGATTAAGTCACATCCATCGGCTACAAAATCTGACAATAGACATTAGTCTACG  
ATAACCATGTTCATGTGGCAAGATCTCTGAAGGTTGGAAGCTTCTTAGAATCTATAGCCT  
TCATACCAAACCTCAATCAATGAATTAGAGAAATCAGACAATGTTAAGTTAGAGTTCAT  
CTTCATGGAGGTACCGAGTTACGGTCGGGAATCAGGGTCTGCCAGAAAGTAACCTGAT  
GTGGATCACTGAAAAAGGATTAGAATCTGCAAATTGACAGCCAATCAGCATTAGAT  
GTTATCTGTCAATCAGAACCTGACGACAGCTTCCAAATGGAGTCTCGCTCGCTCCAG  
GCTGGAGTTCACTGGCACGGTCTCGGCTATTGCAGCCTCCACCTCTGAGTTCAAGCTTC  
TCCTGCCTCAGCCTCCAAAGTAGCTGGATTACAGGCTCTGGATCAGTATCATTATACGAG  
GTAGAAAGATGTCACAGCTATCTGCTACAATACTACAGATCATCAGTATTGGAGAGG  
ACACCACTATGTGCCATTGAAACAAAAAGCTCCTCAACAATACCGCATCCGAGCAAAA  
TTGAGGTATATAAGCCCAGAAGACTATTCAGTCTGTTAAACTCATTGCCCTAAATGTC  
ATTGCTGCAAGAAGTTCCACA

**FIGURE 9D**

MSLVPATNYIYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTI  
VDQTNVKLTCLLFSGNYEALPIIYKNGDIVRFHRLKIQVYKKETQGITS  
SGFASLTFEGTLGAPIIPRTSSKYFNFTTEDHKMVEALRVWASTHMSPS  
WTLLKLCDVQPMQYFDLTCQLLGKAEVDGASFLLKVWDGTRTPFPSWRV  
LIQDLVLEGDLSHIHRLQNLTIDILVYDNHVVARSLKVGSLRIYSLH  
TKLQSMNSENQTMLSLEFHGHGGTSYGRGIRVLPESNSDQLKKDLES  
ANLTANQHSDVICQSEPDDSFPNGVSLRPPGWSSVARSLIAASTS

**FIGURE 9E**

ATGTCTTGTTCCAGCAACAAATTATATATACACCCCTGAATCAACTTAAGGGTGGTA  
CAATTGTCATGTCTATGGTGTGAAGTTCTTAAGCCCCATATCTAAGCAAAGAAC  
TGATTATTGCTCAGTTGTAACTATTGTGGACCAGACAAATGTAAAACTAACCTGCCTGCTC  
TTTAGTGGAAACTATGAAGCCCTTCCAATAATTATAAAAATGGAGATATTGTCGCTTTC  
ACAGGCTGAAGATTCAAGTATATAAAAAGGAGACTCAGGGTATACCAGCTCTGGCTTTG  
CATCTTGACGTTGAGGGAACCTTGGAGCCCCTATCATACCTCGCACTCAAGCAAGTA  
TTTTAACTTCACTACTGAGGACCACAAATGTTAGAACGCTTACGTGTTGGCATCTACT  
CATATGTCACCGTCTGGACATTACTAAAATTGTTGATGTTCAGCCAATGCAGTATTTG  
ACCTGACTTGTCAAGCTCTGGCAAAAGCAGAAGTGGACGGAGCATCTTCTAAAGGT  
ATGGGATGGCACCGAGCACCATTCATCTGGAGAGTCTTAATACAAGACCTGTTCTT  
GAAGGTGATTAAGTCACATCCATCGGCTACAAATCTGACAATAGACATTTAGTCTACG  
ATAACCATGTTCATGTGGCAAGATCTCTGAAGGTTGGAAGCTTCTTGAATCTATAGCCT  
TCATACCAAACCTCAATCAATGAATTAGAATCAGAGAACATCAGACAATGTTAAGTTAGAGTTCAT  
CTTCATGGAGGTACCAAGTTACGGTCGGGAATCAGGGTCTGCCAGAAAGTAACCTGAT  
GTGGATCACTGAAAAAGGATTAGAATCTGCAAATTGACAGCCAATCAGCATTAGAT  
GTTATCTGTCATCAGAACCTGACGACAGCTTCCAAGCTCTGGATCAGTATCATTATACG  
AGGTAGAAAGATGTCAACAGCTATCTGCTACAATACCTACAGATCATCAGTATTTGGAGA  
GGACACCACTATGTGCCATTGAAACAAAAAGCTCCTCAACAATACCGCATCCGAGCAA  
AATTGAGGTATATAAGCCCAGAAGACTATTCACTGTTAAACTTCATTGCCCTAAATG  
TCATTTGTCAGAACAGTTCCACATGAGGGCGATTGGATATAATTTTCAGGATGGTGC  
ACTAAAACCCCAGATGTCAAGCTACAAATACATCATTATATGATTCAAAATCTGGACC  
ACTAAAAATCAAAAGGACGAAAAGTAGCAGTTCACTTGTGAAAAATAATGGTATTCTC  
CCGCTTCAATGAATGTCATTTGATAGAAGGAGGTACACTCAGTGAATTGCAAAC  
TCTCGAACAGTTAATAGTGAATTCTGTGAGATCTGCCACGAAGACCTGGAACCTTT  
GGACCTTCAGCACCATTCTTATACAAGGAACAATACATCACTATGGCACTGGTATTGT  
ACCCCTCCAATATGTGTTGTTATGACCTTACACTTGATGATGGAACAGGAGTACTAGAA  
GCCTATCTCATGGATTCTGACAAATTCTCCAGATTCCAGCATCAGAAGTCTGATGGATG  
ATGACCTTCAGAAAAGTGTGGATATGATCATGGATATGTTGTCCTCCAGGAATAAAAT  
TGATGCATATCCGTGGTTGGAATGCTTCATCAAGTCATACAATGTCACAAATGGAACAGAT  
AATCAAATTGCTATCAGATTGACACCACAGTTGCAGAAGATGTAATCTAA

**FIGURE 9F**

MSLVPATNYIYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTI  
VDQTNVKLTCLLFSGNYEALPIIYKNGDIVRFHRLKIQVYKKETQGITS  
SGFASLTFEGTLGAPIIPRTSSKYFNFTTEDHKMVEALRVWASTHMSPS  
WTLLKLCDVQPMQYFDLTCQLLGKAEVDGASFLLKVWDGTRTPFPSWRV  
LIQDLVLEGDLSHIHRLQNLTIDILVYDNHVHVARSLKVGSLRIYSLH  
TKLQSMNSENQTMLSLEFHGHGGTSYGRGIRVLPESNSDVDQLKKDLES  
ANLTANQHSDVICQSEPDDSFPSGSVSLYEVERCQQLSATILDHQYL  
ERTPLCAILKQKAPQQYRIRAKLRSYKPRRLFQSVKLHCPKCHLLQEVP  
HEGDLDIIIFQDGATKTPDVKLQNTSLYDSKIWTTKNQKGRKVAHFVKN  
NGILPLSNECLLIEGGTLSEICKLSNKFNSVIPVRSGHEDLELLDLSA  
PFLIQGTIHGYCTPPICVCYDLYT

**FIGURE 10A**

**FIGURE 10B**

**FIGURE 10C**

**FIGURE 10D**

**FIGURE 10E**

**FIGURE 10F**

**FIGURE 10G**

**Alternative forms of hPot1**

**partial genomic DNA lacking N-terminus**

5            6            7            8            9            10          11          12          13+3'UTR  
(119)      (56)      (156)     (205)     (135)     (88)      (91)      (105)     (112+702)

**splice variant #1: 72kDa protein lacking exon 5**

**splice variant #3: 38kDa protein containing exon 5**

**splice variant #4: 58kDa protein lacking exons 5 and 10**